

PENDING CLAIMS

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1. (Currently Amended) A small footprint device comprising:

- a. at least one processing element;
- b. a memory;
- c. a context barrier, for isolating program modules from one another using said memory and said processing element, said program modules configured to operate on said small footprint device; and
- d. one context having access to all program modules without context barrier constraints.

2-24. (Cancelled)

25. (Previously Added) The small footprint device of claim 1 in which said context is used for access to at least one program module across a context barrier.

26. (Previously Added) The small footprint device of claim 1 in which said context allocates separate name spaces for each program module.

27. (Previously Added) The small footprint device of claim 26 in which said context can access at least one other program module even though it is located in a different name space.

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28. (Previously Added) The small footprint device of claim 1 in which said context allocates separate memory spaces for each program module.
29. (Previously Added) The small footprint device of claim 28 in which said context can access at least one program module even though it is located in a different memory space.
30. (Previously Added) The small footprint device of claim 1 in which said context barrier enforces security checks on at least one of a principal, an object and an action.
31. (Previously Added) The small footprint device of claim 30 in which at least one security check is based on partial name agreement between a principal and an object.
32. (Previously Added) The small footprint device of claim 31 in which said context can access at least one other context without said at least one security check.
33. (Previously Added) The small footprint device of claim 30 in which at least one security check is based on memory space agreement between a principal and an object.
34. (Previously Added) The small footprint device of claim 33 in which said context can access at least one other context without said at least one security check.

35. (Currently Amended) A method of operating a small footprint device, comprising:

~~the step of~~

separating program modules using a context barrier, said program modules

configured to operate on said small footprint device; and

permitting one context in said small footprint device access to at least one other

context in said small footprint device without context barrier constraints.

36. (Previously Added) The method of claim 35 in which the context barrier will not permit a principal to perform an action on an object unless both principal and object are part of the same context or the principal is part of said one context.

37. (Currently Amended) A method of permitting access to information on a small footprint device from a first program module to a second program module separated by a context barrier, comprising: ~~the step of~~ creating a context in said small footprint device, said context having access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device.

38. (Currently Amended) The method of claim ~~44~~ 37 in which said context is a supercontext.

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39. (Currently Amended) A method of communicating across a context barrier separating program modules on a small footprint device, comprising: ~~the steps of~~  
a. creating a context in said small footprint device, said context having access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device; and  
b. permitting said context to access information of another program module across said context barrier.
40. (Currently Amended) A method of communicating across a context barrier separating program modules on a small footprint device, comprising: ~~the steps of~~  
a. creating a context in said small footprint device, said context having access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device; and  
b. permitting at least one program module to access information of another program module across said context barrier using said context.
41. (Currently Amended) A computer program product, comprising:  
a. a memory medium; and  
b. a computer controlling element comprising instructions for implementing a context barrier on a small footprint device and for giving one context in said small footprint device access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device.

42. (Currently Amended) The computer program product of claim ~~48~~ 41, in which said medium is a carrier wave.

43. (Currently Amended) A computer program product, comprising:

a. a memory medium; and

b. a computer controlling element comprising instructions for separating a plurality of programs on a small footprint device by running them in respective contexts and for permitting one context in said resource constrained device to have access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device.

44. (Previously Added) The computer program product of claim 43, in which said medium is a carrier wave.

45. (Currently Amended) A carrier wave carrying instructions over a communications link for implementing ~~an~~ a context in said resource constrained device, said context having access to all program modules on a small footprint device without context barrier constraints, said program modules configured to operate on said small footprint device.

46. (Currently Amended) A carrier wave carrying instructions over a communications link for implementing a context barrier separating a plurality of programs on a small footprint device by running them in respective contexts and for permitting one

context in said resource constrained device to access all programs without context barrier constraints, said programs configured to operate on said small footprint device.

47. (Currently Amended) A method of transmitting code over a network, comprising ~~the step of~~ transmitting a block of code from a server, said block of code comprising instructions for implementing a context in said small footprint device, said context having access to all program modules for providing access across a context barrier, said program modules configured to operate on said small footprint device.
48. (Currently Amended) An apparatus for communicating across a context barrier separating program modules on a small footprint device, comprising:
- ~~a.~~ means for creating a context in said small footprint device, said context having access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device; and
  - ~~b.~~ means for permitting said context to access information of another program module across said context barrier.
49. (Currently Amended) An apparatus for communicating across a context barrier separating program modules on a small footprint device, comprising:
- ~~a.~~ means for creating a context in said small footprint device, said context having access to all program modules without context barrier constraints, said program modules configured to operate on said small footprint device; and

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b. means for permitting at least one program module to access information of another  
program module across said context barrier using said context.

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